STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/559,758_
Source: _IFWP_
Date Processed by STIC: _12/16/05_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
      http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street. Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED   **SUGGESTED CORRECTION**   SERIAL NUMBER: *10/559,758*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics
    Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino
    Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers: use **space characters**, instead.

4____Non-ASCII
The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length
Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0
    "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences
    (OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences
    (NEW RULES)
Sequence(s) _____ missing. **If intentional,** please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's
    (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue n or Xaa represents.

10____Invalid <213>
    Response
Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11____Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0
    "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa
"n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>
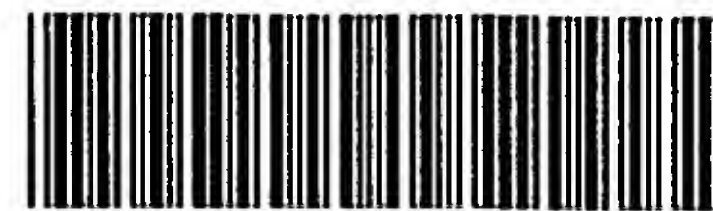
RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:56

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
        5 <110> APPLICANT: Hart, Stephen Lewis
        6         Writer, Michele
        9 <120> TITLE OF INVENTION: PEPTIDE LIGANDS
       12 <130> FILE REFERENCE: ABL-012.1P US
C-->   14 <140> CURRENT APPLICATION NUMBER: US/10/559,758
       15 <141> CURRENT FILING DATE: 2005-12-06
       18 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/002421
       19 <151> PRIOR FILING DATE: 2004-06-07
       22 <150> PRIOR APPLICATION NUMBER: GB 03 13132.3
       23 <151> PRIOR FILING DATE: 2003-06-06
       26 <160> NUMBER OF SEQ ID NOS: 50
       29 <170> SOFTWARE: PatentIn version 3.1
       33 <210> SEQ ID NO: 1
       35 <211> LENGTH: 5
       37 <212> TYPE: PRT
       39 <213> ORGANISM: Artificial Sequence
       43 <220> FEATURE:
       45 <223> OTHER INFORMATION: Peptide ligand
       47 <220> FEATURE:
       49 <221> NAME/KEY: MISC_FEATURE
       51 <222> LOCATION: (2)..(4)
       53 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue, Xaa at position 3
= a
       54        ny amino acid residue, Xaa at position 4 = any amino acid residue
       58 <400> SEQUENCE: 1
W-->   60 Pro Xaa Xaa Xaa Thr
       61 1               5
       64 <210> SEQ ID NO: 2
       66 <211> LENGTH: 4
       68 <212> TYPE: PRT
       70 <213> ORGANISM: Artificial Sequence
       74 <220> FEATURE:
       76 <223> OTHER INFORMATION: Peptide ligand
W-->   77 <220> FEATURE:
       79 <221> NAME/KEY: MISC_FEATURE
       81 <222> LOCATION: (3)..(3)
       83 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue
       87 <400> SEQUENCE: 2
W-->   89 Pro Ser Xaa Ser
       90 1
       93 <210> SEQ ID NO: 3
       95 <211> LENGTH: 5
       97 <212> TYPE: PRT
       99 <213> ORGANISM: Artificial Sequence
```

pp 1-6

Does Not Comply Corrected Diskette Needed

insufficient Explanation - what is the source of genetic material?

(see item 11 on Error Summary Sheet)

RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:56

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
103 <220> FEATURE:
105 <223> OTHER INFORMATION: Peptide ligand
107 <220> FEATURE:
109 <221> NAME/KEY: MISC_FEATURE
111 <222> LOCATION: (2)..(4)
113 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid, Xaa at position 3 = any
amino
114       acid having an amide side chain, Xaa at position 4 = any amino a
115       cid
119 <400> SEQUENCE: 3
```
W--> 121 Gln Xaa Xaa Xaa Gln
```
122 1                 5
125 <210> SEQ ID NO: 4
127 <211> LENGTH: 3
129 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
137 <223> OTHER INFORMATION: Peptide ligand
139 <220> FEATURE:
141 <221> NAME/KEY: MISC_FEATURE
143 <222> LOCATION: (2)..(2)
145 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue having an
aliphatic si
146       de chain
150 <400> SEQUENCE: 4
```
W--> 152 Ser Xaa Ser
```
153 1
156 <210> SEQ ID NO: 5
158 <211> LENGTH: 5
160 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
168 <223> OTHER INFORMATION: Peptide ligand
170 <220> FEATURE:
172 <221> NAME/KEY: MISC_FEATURE
174 <222> LOCATION: (2)..(2)
176 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
180 <220> FEATURE:
182 <221> NAME/KEY: MISC_FEATURE
184 <222> LOCATION: (4)..(4)
186 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
190 <400> SEQUENCE: 5
```
W--> 192 Pro Xaa Leu Xaa Thr
```
193 1                 5
196 <210> SEQ ID NO: 6
198 <211> LENGTH: 5
200 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
208 <223> OTHER INFORMATION: Peptide ligand
210 <400> SEQUENCE: 6
```

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
212 Pro Ala Leu Lys Thr
213 1                 5
216 <210> SEQ ID NO: 7
218 <211> LENGTH: 5
220 <212> TYPE: PRT
222 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
228 <223> OTHER INFORMATION: Peptide ligand
230 <220> FEATURE:
232 <221> NAME/KEY: MISC_FEATURE
234 <222> LOCATION: (2)..(2)
236 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
240 <220> FEATURE:
242 <221> NAME/KEY: MISC_FEATURE
244 <222> LOCATION: (4)..(4)
246 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
250 <400> SEQUENCE: 7
```

W--> **252 Pro Xaa Asn Xaa Thr**

```
253 1                 5
256 <210> SEQ ID NO: 8
258 <211> LENGTH: 5
260 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
268 <223> OTHER INFORMATION: Peptide ligand
270 <400> SEQUENCE: 8
272 Pro Ser Asn Ser Thr
273 1                 5
276 <210> SEQ ID NO: 9
278 <211> LENGTH: 5
280 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
288 <223> OTHER INFORMATION: Peptide ligand
290 <400> SEQUENCE: 9
292 Pro Pro Asn Thr Thr
293 1                 5
296 <210> SEQ ID NO: 10
298 <211> LENGTH: 6
300 <212> TYPE: PRT
302 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
308 <223> OTHER INFORMATION: Peptide ligand
310 <220> FEATURE:
312 <221> NAME/KEY: MISC_FEATURE
314 <222> LOCATION: (2)..(4)
316 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid resdue, Xaa at position 3
= an
317         y amino acid residue, Xaa at position 4 = any amino acid residue
321 <220> FEATURE:
```

residue

```
        323 <221> NAME/KEY: MISC_FEATURE
        325 <222> LOCATION: (6)..(6)
        327 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid resdue
        331 <400> SEQUENCE: 10
W-->    333 Pro Xaa Xaa Xaa Thr Xaa
        334 1               5
        337 <210> SEQ ID NO: 11
        339 <211> LENGTH: 6
        341 <212> TYPE: PRT
        343 <213> ORGANISM: Artificial Sequence
        347 <220> FEATURE:
        349 <223> OTHER INFORMATION: Peptide ligand
        351 <220> FEATURE:
        353 <221> NAME/KEY: MISC_FEATURE
        355 <222> LOCATION: (2)..(2)
        357 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
        361 <220> FEATURE:
        363 <221> NAME/KEY: MISC_FEATURE
        365 <222> LOCATION: (4)..(4)
        367 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
        371 <220> FEATURE:
        373 <221> NAME/KEY: MISC_FEATURE
        375 <222> LOCATION: (6)..(6)
        377 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid residue
        381 <400> SEQUENCE: 11
W-->    383 Pro Xaa Leu Xaa Thr Xaa
        384 1               5
        387 <210> SEQ ID NO: 12
        389 <211> LENGTH: 6
        391 <212> TYPE: PRT
        393 <213> ORGANISM: Artificial Sequence
        397 <220> FEATURE:
        399 <223> OTHER INFORMATION: Peptide ligand
        401 <220> FEATURE:
        403 <221> NAME/KEY: MISC_FEATURE
        405 <222> LOCATION: (2)..(2)
        407 <223> OTHER INFORMATION: Xaa at position 2 = any amino acid residue
        411 <220> FEATURE:
        413 <221> NAME/KEY: MISC_FEATURE
        415 <222> LOCATION: (4)..(4)
        417 <223> OTHER INFORMATION: Xaa at position 4 = any amino acid residue
        421 <220> FEATURE:
        423 <221> NAME/KEY: MISC_FEATURE
        425 <222> LOCATION: (6)..(6)
        427 <223> OTHER INFORMATION: Xaa at position 6 = any amino acid residue
        431 <400> SEQUENCE: 12
W-->    433 Pro Xaa Asn Xaa Thr Xaa
        434 1               5
        437 <210> SEQ ID NO: 13
```

RAW SEQUENCE LISTING   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:56

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
439 <211> LENGTH: 6
441 <212> TYPE: PRT
443 <213> ORGANISM: Artificial Sequence
447 <220> FEATURE:
449 <223> OTHER INFORMATION: Peptide ligand
451 <220> FEATURE:
453 <221> NAME/KEY: MISC_FEATURE
455 <222> LOCATION: (1)..(1)
457 <223> OTHER INFORMATION: Xaa at position 1 = any amino acid residue
461 <220> FEATURE:
463 <221> NAME/KEY: MISC_FEATURE
465 <222> LOCATION: (3)..(5)
467 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue, Xaa at position
4 = a
468         ny amino acid residue, Xaa at position 5 = any amino acid residue
472 <400> SEQUENCE: 13
W--> 474 Xaa Pro Xaa Xaa Xaa Thr
475 1               5
478 <210> SEQ ID NO: 14
480 <211> LENGTH: 7
482 <212> TYPE: PRT
484 <213> ORGANISM: Artificial Sequence
488 <220> FEATURE:
490 <223> OTHER INFORMATION: Peptide ligand
492 <220> FEATURE:
494 <221> NAME/KEY: MISC_FEATURE
496 <222> LOCATION: (1)..(1)
498 <223> OTHER INFORMATION: Xaa at position 1 = any amino acid residue
502 <220> FEATURE:
504 <221> NAME/KEY: MISC_FEATURE
506 <222> LOCATION: (3)..(5)
508 <223> OTHER INFORMATION: Xaa at position 3 = any amino acid residue, Xaa at position
4 = a
509         ny amino acid residue, Xaa at position 5 = any amino acid residue
513 <220> FEATURE:
515 <221> NAME/KEY: MISC_FEATURE
517 <222> LOCATION: (7)..(7)
519 <223> OTHER INFORMATION: Xaa at position 7 = any amino acid residue
523 <400> SEQUENCE: 14
W--> 525 Xaa Pro Xaa Xaa Xaa Thr Xaa
526 1               5
529 <210> SEQ ID NO: 15
531 <211> LENGTH: 7
533 <212> TYPE: PRT
535 <213> ORGANISM: Artificial Sequence
539 <220> FEATURE:
541 <223> OTHER INFORMATION: Peptide ligand
543 <400> SEQUENCE: 15
545 Ala Pro Ser Asn Ser Thr Ala
546 1               5
549 <210> SEQ ID NO: 16
```

Please correct this error in subsequent sequences.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:57

Input Set : A:\ABL-012.1P Sequence listing.txt
Output Set: N:\CRF4\12162005\J559758.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4
Seq#:2; Xaa Pos. 3
Seq#:3; Xaa Pos. 2,3,4
Seq#:4; Xaa Pos. 2
Seq#:5; Xaa Pos. 2,4
Seq#:7; Xaa Pos. 2,4
Seq#:10; Xaa Pos. 2,3,4,6
Seq#:11; Xaa Pos. 2,4,6
Seq#:12; Xaa Pos. 2,4,6
Seq#:13; Xaa Pos. 1,3,4,5
Seq#:14; Xaa Pos. 1,3,4,5,7
Seq#:20; Xaa Pos. 1,4
Seq#:37; Xaa Pos. 2,3,4,6
Seq#:38; Xaa Pos. 2,4
Seq#:39; Xaa Pos. 2,3,4
Seq#:40; Xaa Pos. 2,4
Seq#:41; Xaa Pos. 1,4
Seq#:42; Xaa Pos. 2,3,4
Seq#:43; Xaa Pos. 2

VERIFICATION SUMMARY   DATE: 12/16/2005
PATENT APPLICATION: US/10/559,758   TIME: 15:47:57

Input Set : **A:\ABL-012.1P Sequence listing.txt**
Output Set: **N:\CRF4\12162005\J559758.raw**

```
L:14   M:270 C: Current Application Number differs, Replaced Current Application Number
L:60   M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:77   M:283 W: Missing Blank Line separator, <220> field identifier
L:89   M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:121  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:152  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:192  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:252  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:333  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:383  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:433  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:474  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:525  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:665  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
```